

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
1594 West North Temple Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
Telephone: (801) 538-5291
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11/30/04
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JAN 23 2004

DIV OF OIL GAS & MINING

ANNUAL REPORT OF MINING OPERATIONS

The informational requirements of this form are based on provisions of the Mined Land Reclamation Act, Title 40-8, Utah Code Annotated 1953, as amended, and the General Rules as promulgated under the Utah Minerals Regulatory Program. An operator conducting mining operations under a Notice of Intention must file an annual operations and progress report (FORM MR-AR) with the Division.

I. General Information

1. Report Time Period: From (mo./yr.) Jan / 2003 To (mo./yr.) Dec / 2003
2. DOGM File Number (Mine No.): M / 023 / 003
3. Mine Name: Topaz Mining Property
4. Mineral(s) Mined: (or permitted to mine): Beryllium (bertrandite)
5. Type of mine ☒ Surface Mine or ☐ Underground Mine
6. Legal Description (Location of Lands Affected): "Please see enclosed description"
1/4, 1/4, 1/4, Section, Township, Range
1/4, 1/4, 1/4, Section, Township, Range
1/4, 1/4, 1/4, Section, Township, Range
7. Name of Operator or Company: Brush Resources Inc.
8. Permanent Street Address: P.O. Box 815
City, State, Zip: Delta, Utah 84624
Phone: (435) 864-2701 Fax: (435) 864-4004
9. Company Representative (or designated operator):
Name: Alex Boulton
Title: President
Business Address: P.O. Box 815
City, State, Zip: Delta, Utah 84624
Phone: (435) 864-2701 Fax: (435) 864-4004
☒ Please check if any of the above information has changed since previous year.

II. Mining and Reclamation

1. Was the mine active during the past year? Yes ☒ No ☐
2. If no - what was the last year of activity? _____
3. If yes - how much ore or mineral was mined? 37,738 wet tons (delivered)

4. Briefly describe the type of work performed, volume of material moved, and any new or additional surface disturbances that occurred during the past year.

The mine was inactive during April, May, November & December

Mined 32K wet tons waste & 42K wet tons ore from Monitor #3

5. How much **additional acreage** was disturbed during the past year? None

6. How much acreage was **reclaimed** during the past year? None

7. Briefly describe the reclamation work performed during the past year. This description should include methods employed, and an evaluation of the results.

Conducted inspection with DOGM representative on June 19

see attached letter dated July 20, 2003

8. What is the **total disturbed acreage of entire project** at year's end? 203 acres

9. Briefly summarize any mining and/or reclamation plans for the upcoming year.

1. Mine all remaining waste & ore from the Monitor open pit.

2. Ship ore to the mill from the existing stockpile inventories as needed.

3. Conduct annual site inspection with the Division representative(s).

4. Continue monitoring Rainbow & Sigma Emma test plots.

NOTE: Section III., "Additional Information" applies only to **large mining operations**.

III. Additional Information – R647-4-121.2 and .3

1. **The operator shall include an updated map depicting surface disturbance and reclamation performed during the year, prepared in accordance with R647-4-105**
2. **The operator shall keep and maintain timely records relating to his performance under the Act, and shall make these records available to the Division upon request.**

IV. Signature Requirement

I hereby certify that the foregoing is true and correct.

Name (Typed or Print):

Alex Boulton

Title of Operator:

President

Signature of Operator:



Date:

1/22/04

<u>Brush Resources Inc.</u>	<u>Topaz Mining Properties</u>
Operator	Mine Name
<u>M/023/003</u>	<u>Juab</u> County, Utah
Permit Number	

Legal Description (Location of Lands Affected)
Refers to item 6. on page 1 of the Annual Report form

Township 13 South, Range 12 West, SLM

- **Section 4**
The SW $\frac{1}{4}$ of the SE $\frac{1}{4}$, and the SE $\frac{1}{4}$ of the SW $\frac{1}{4}$.
- **Section 5**
Lot 1, and Lot 2, and the S $\frac{1}{2}$ of the NE $\frac{1}{4}$, and the SE $\frac{1}{4}$, and the E $\frac{1}{2}$ of the SW $\frac{1}{4}$, and the SE $\frac{1}{4}$ of the NW $\frac{1}{4}$.
- **Section 7**
The S $\frac{1}{2}$ of the NE $\frac{1}{4}$, and the SE $\frac{1}{4}$, and the E $\frac{1}{2}$ of the SW $\frac{1}{4}$.
- **Section 8**
The NE $\frac{1}{4}$, and W $\frac{1}{2}$ and the SE $\frac{1}{4}$ of the SE $\frac{1}{4}$, and the E $\frac{1}{2}$ of the SW $\frac{1}{4}$.
- **Section 9**
The NE $\frac{1}{4}$, and the SE $\frac{1}{4}$, and the SW $\frac{1}{4}$, and the NW $\frac{1}{4}$.
- **Section 16**
The NE $\frac{1}{4}$, and NW $\frac{1}{4}$.
- **Section 17**
The N $\frac{1}{2}$ of the NE $\frac{1}{4}$.

Township 12 South, Range 12 West, SLM

- **Section 32**
The W $\frac{1}{2}$ and the SE $\frac{1}{4}$ of the SE $\frac{1}{4}$, and the E $\frac{1}{2}$ of the SW $\frac{1}{4}$, and the SE $\frac{1}{4}$ of the NW $\frac{1}{4}$.



State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

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Michael O. Leavitt
Governor

Robert L. Morgan
Executive Director

Lowell P. Braxton
Division Director



June 20, 2003

TO: Minerals File

FROM: Tom Munson, Senior Reclamation Hydrologist *TM*

RE: Site Inspection, Brush Resources, Inc., Topaz Mine, M/023/003, Juab County, Utah

Date of Inspection: June 19, 2003
Time of Inspection: 8:30 a.m. – 10:00 a.m.
Conditions: Sunny, windy
Participants: Tom Munson, DOGM

Purpose of Inspection:

To review the revegetation on dump areas and determine the success of test plots during the drought.

Observations:

Ore Pile area adjacent to the Office

This area was covered with 12 inches of gravel mulch. The following observations were made regarding plants: Grasses – foxtail, crested wheatgrass (very limited amount); Shrubs – fourwing was the most prevalent, shadscale was also present but not very prevalent. Halogeton and cheatgrass were also growing on site. It was noted that there was still evidence of where the sheep's-foot had traveled, and therefore, it appeared to have some impact on some of the success of the revegetation. Being two years into this project and the material being very marginal, at best, I felt that there was some success in this drought especially.

The next area we examined was the top of the Blue Chalk Dump. It was seeded in 1997 and very successful. There was a very diverse community of grasses and shrubs. As the drought has moved forward, we are seeing almost a complete elimination of grass. Very sparse, if any, crested wheatgrass, and one or two indian ricegrass plants were observed. There was shadscale and mainly fourwing, which was by far was the most healthy plant and still doing fairly well on the site. Hopefully, with some rain, the grasses will come back. This area had previously been released.

The next areas visited were eight demonstration plots using gravel mulch, a map will be attached to this inspection report so they can be referenced.

Test plot #1 – six inches of untreated gravel. Found evidence of fourwing, saltbrush, penstemon, crested wheatgrass, ricegrass, yellow sweetclover, forage kochia and squirreltail.

Test plot #2 – three inches of untreated gravel. Appeared to have one of the worst performances of any of the test plots. Penstemon, crested wheatgrass and several yellow sweetclover plants found at this site.

Test plot #3 – three inches of gravel treated with gypsum, super phosphate fertilizer on this plot. This had poor performance. It appeared the gravel itself was a finer texture, which seemed to inhibit growth. The plants observed were: penstemon, crested wheatgrass and fourwing. This plot was also a steeper grade, which may have been a factor.

Test plot #4 – six inches of gravel treated with gypsum and super phosphate. It was not doing very well. There was crested wheatgrass, penstemon, squirreltail, yellow sweetclover, and fourwing.

Test plot #5 – six inches of gravel treated with composted manure and gypsum super phosphate combined. That site had fourwing, crested wheatgrass, penstemon, one lone shadscale plant, mostly halogeton and cheatgrass.

Test plot #6 – three inches of gravel treated with composted manure and gypsum super phosphate. This site had robust fourwing, crested wheatgrass and a few penstemon.

Test plot #7 – six inches of gravel treated with composted manure. This plot has fourwing, crested wheatgrass, penstemon, shadscale, halogeton and cheatgrass.

Test plot #8 – three inches of gravel treated with composted manure. The shrubs were very robust which included fourwing. Grasses were crested wheatgrass and penstemon.

These test plots were established in 1999 in the Rainbow Dump overburden. It is a rhyolite dump and the gravel spread over rhyolite.

Conclusions and Recommendations:

The topography appeared to have an influence on the test plots. Since some of the test plots were steeper than others, it was hard to tell in some respects whether the topography was the biggest influence or the size of the gravel itself, which was varied in size and texture. It was apparent that the manure and gypsum super phosphate were beneficial. The three inches of gravel did as well as the six inches of gravel on the treated plots with manure and super phosphate and on the straight manure plots.

ATTACHMENT

Photographs

M/023/003, Topaz Mine, Brush Resources, Inc.

Inspection Dated: 6/19/2003 ; Report Dated: 6/20/2003



Photo 1 - Gravel Test Plot - No treatment



Photo 3 - shadscale and four wing

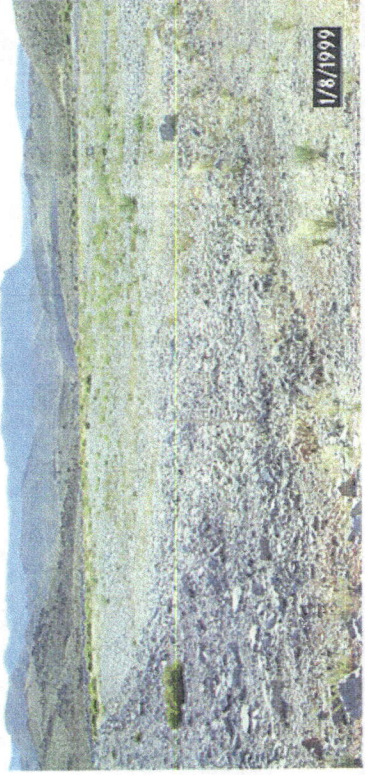


Photo 2 - Overview Testplots

BRUSH WELLMAN, INC.
BERYLLIUM/MINING DIVISION

TEST PLOTS

Established 1999

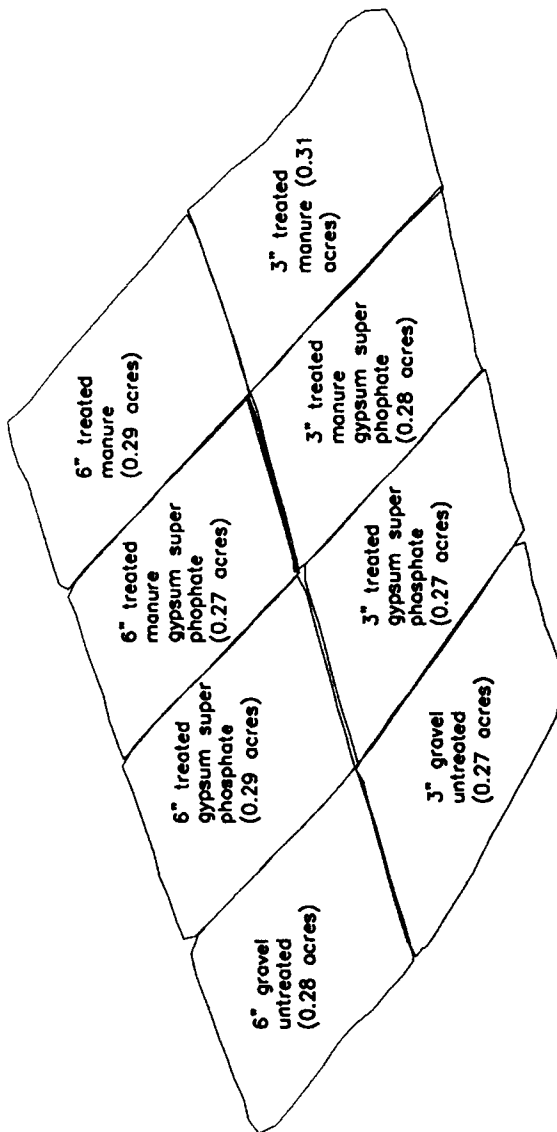
on Rainbow Overburden



DRAWN BY: JRW DATE: Jan 11, 2000
DRAWING: J:\acad\mwp\rbtest00



Rainbow Overburden



The test plots are located in the E1/2, SE1/4, NE1/4, NW1/4, and in the W1/2, NW1/4, NE1/4 of Section 9, in T13S, R12W, SLM.

BRUSHRESOURCES

A Brush Engineered Materials Inc. Company

Brush Resources Inc
P.O. Box 815
Delta, UT 84624
Tel: 435-864-2701
Fax: 435-864-4004

* M/023/003
M/023/053

January 22, 2004

Tom Monson
Division of Oil, Gas, and Mining
1594 West North Temple
Suite 1210
P.O. Box 145801
Salt Lake City, Utah 84116

Dear Tom:

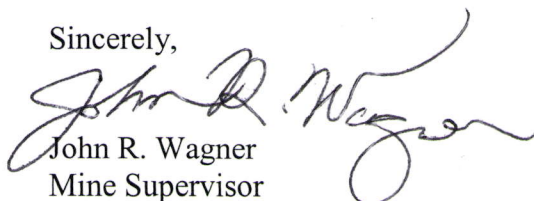
Enclosed are two annual reports as follows:

- Topaz Mining Property (Mine No. M/023/003)
- Hogs Back Project (Mine No. M/023/053)

Please note that there was no reclamation work beyond monitoring and the inspection for the Topaz Mining Property. All reclamation efforts were focused on completing the Hogs Back Project final reclamation treatments. We are requesting release from surety on the earthwork as explained in the report.

Thanks for the help and guidance throughout the year. We look forward to inspection of the Hogs Back Property in the near future.

Sincerely,


John R. Wagner
Mine Supervisor

cc: Alex Boulton

Enclosures

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JAN 23 2004

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